

## EVALUATION AND OPTIMISATION OF CODE

A memory map evaluation tool is provided which allows a program to be organised in a manner most compatible with use of a cache. This is done by executing a first version of the program according to a first memory map to generate a program counter trace, converting the program counter trace into a specific format and then translating the program counter trace into physical addresses using a memory map to be evaluated, different from the first memory map. Those physical addresses are then used to evaluate the number of likely cache misses using a model of a direct-mapped cache for the memory map under evaluation.